## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Please cancel claims 47, 49, 60, and 62 without prejudice or disclaimer, and amend claims 32 and 50, as follows:

Claims 1-31 (Canceled).

32. (Currently Amended) A method for producing a metal wire for reinforcing an elastomeric material, wherein the metal wire comprises:

a metal core comprising steel; and

a metal coating layer comprising brass having a crystalline structure consisting of

## α face-centered-cubic brass;

wherein the metal core comprises a predetermined initial diameter,

wherein the method comprises:

submitting the metal core to at least one surface treatment;

thermally treating the metal core;

depositing the metal coating layer on the metal core; and

drawing the metal-coated metal core;

wherein the at least one surface treatment predisposes a surface of the metal core to being coated with the metal coating layer,

wherein the metal coating layer is deposited on the metal core to a predetermined initial thickness using a plasma deposition technique, and wherein the metal-coated metal core is drawn until: the metal core comprises a final diameter smaller than the predetermined initial diameter; and

the metal coating layer comprises a final thickness smaller than the predetermined initial thickness.

- 33. (Previously Presented) The method of claim 32, wherein submitting the metal core to at least one surface treatment, thermally treating the metal core, depositing the metal coating layer on the metal core, and drawing the metal-coated metal core are carried out in a substantially continuous manner.
- 34. (Previously Presented) The method of claim 32, wherein the metal core is conveyed through a sequence of respective positions for submitting the metal core to at least one surface treatment, thermally treating the metal core, depositing the metal coating layer on the metal core, and drawing the metal-coated metal core, at a speed in a range from about 10 m/min to about 80 m/min.
- 35. (Previously Presented) The method of claim 32, wherein submitting the metal core to at least one surface treatment comprises:

pickling the metal core in a pickling bath; and washing the pickled metal core in water.

 (Previously Presented) The method of claim 35, further comprising: drying the washed metal core.

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37. (Previously Presented) The method of claim 36, wherein drying the washed metal core is carried out using at least one blower.

38. (Previously Presented) The method of claim 32, further comprising: dry drawing the metal core before thermally treating the metal core.

39. (Previously Presented) The method of claim 32, wherein the plasma deposition technique is selected from the group comprising: sputtering, evaporation by voltaic arc, plasma spray, and plasma-enhanced chemical vapor deposition (PECVD).

40. (Previously Presented) The method of claim 32, wherein depositing the metal coating layer on the metal core is carried out in at least one vacuum deposition chamber at a first predetermined pressure.

41. (Previously Presented) The method of claim 40, wherein depositing the metal coating layer on the metal core is carried out a plurality of times.

42. (Previously Presented) The method of claim 40, wherein the first predetermined pressure is in a range from about 10<sup>-3</sup> mbar to about 10<sup>-1</sup> mbar.

43 (Previously Presented) The method of claim 40, further comprising:

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conveying the metal core in at least one pre-chamber at a second predetermined

pressure higher than the first predetermined pressure;

wherein the at least one pre-chamber is arranged upstream of the at least one

vacuum deposition chamber.

44. (Previously Presented) The method of claim 43, wherein the second

predetermined pressure is in a range from about 0.2 mbar to about 10 mbar.

45. (Previously Presented) The method of claim 32, further comprising:

descaling a wire rod; and

dry drawing the wire rod to obtain the metal core comprising the predetermined

initial diameter.

46. (Previously Presented) The method of claim 32, wherein the metal coating

layer comprises a first metal material different from a second metal material of the metal

core.

47. (Canceled).

48. (Previously Presented) The method of claim 32, wherein the metal coating

layer comprises a metal material selected from the group comprising: copper, zinc,

manganese, cobalt, tin, molybdenum, iron, and alloys thereof.

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49. (Canceled).

 (Currently Amended) The method of claim [[49]] 32, wherein the brass comprises a copper content of about 60%-by-weight to about 72%-by-weight.

51. (Previously Presented) The method of claim 46, wherein the first metal

material comprises a predetermined amount of a lubricating agent.

52. (Previously Presented) The method of claim 32, wherein the predetermined

initial thickness is at least about 0.5 µm.

53. (Previously Presented) The method of claim 32, wherein the predetermined

initial thickness is between about 0.5  $\mu m$  and about 2  $\mu m.$ 

54. (Previously Presented) The method of claim 32, wherein drawing the

metal-coated metal core causes the final diameter to be about 5-25% of the

predetermined initial diameter.

55. (Previously Presented) The method of claim 32, wherein the final diameter

is in a range from 0.10 mm to 0.50 mm.

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56. (Previously Presented) The method of claim 32, wherein drawing the

metal-coated metal core causes the final thickness to be about 5-25% of the

predetermined initial thickness.

57. (Previously Presented) The method of claim 32, wherein the final thickness

is in a range from 80 nm to 350 nm.

58. (Previously Presented) The method of claim 32, wherein the predetermined

initial diameter is between about 0.85 mm and about 3 mm.

59. (Previously Presented) The method of claim 32, wherein the predetermined

initial thickness is between about 0.5 µm and about 2 µm.

60. (Canceled).

61. (Previously Presented) A method for producing a metal cord for reinforcing

an elastomeric material, the method comprising:

producing a plurality of wires by the method of claim 32; and

stranding the plurality of wires.

62. (Canceled).

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